

Storm Data and Unusual Weather Phenomena

October 1998

		Time	Path	Path	Number of		Estimated			Octo
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	Character of Storm	
<u>NEW MEXICO Southeast</u>										
NMZ027>029		Guadalupe Mountains Of Eddy County - Eddy County Plains - Lea								
	01	0000MST			0	0			Drought	
	31	2359MST								
	Drought conditions continued in Southwest Texas and Southeast New Mexico. Agricultural losses will be great but will not be included until the end of the harvest when totals are calculated. October was the wettest month for 1998 across much of the region with most stations reporting more than 1 inch of rain and many reporting over 2 inches. However, the effects of the drought were still being felt across the region.									
Eddy County										
2 W Whites City	27	1430MST			0	0	1K		Thunderstorm Wind	
	Thunderstorm winds blew down a sign near the entrance of Carlsbad Caverns National Park.									
Eddy County										
Black River	27	1435MST			0	0	1K		Thunderstorm Wind	
	Thunderstorm winds damaged fences in and around the Black River Village area.									
Eddy County										
2 N Malaga	27	1450MST			0	0			Hail (2.00)	
	The supercell that hit Whites City and the Black River Village continued on its ENE track into the Loving/Malaga area. Two inch diameter hail fell north of Malaga.									
Eddy County										
25 E Carlsbad	27	1500MST			0	0			Flash Flood	
		1600MST								
	Very heavy rains from training cells caused minor flooding near the Waste Isolation Pilot Plant in extreme eastern Eddy County.									
Lea County										
12 WSW Eunice	27	1608MST	0.5	100	0	0			Tornado (F0)	
	A New Mexico State Police Trooper reported a brief tornado over open country.									
Lea County										
Eunice	27	1625MST			0	0			Hail (1.00)	
	The supercell storm that crossed Eddy County moved over rural parts of Lea County before striking Eunice. This storm then crossed the Texas border into northeastern Andrews County.									
Lea County										
6 E Mc Donald	27	1825MST			0	0	5K		Thunderstorm Wind	
	Thunderstorm winds severely damaged two barns in the McDonald and the Prarieview areas.									
Eddy County										
Carlsbad	30	1659MST			0	0			Hail (1.00)	
Lea County										
Bennett	30	1815MST			0	0			Hail (1.75)	
Lea County										
Jal	30	1833MST			0	0	2K		Thunderstorm Wind	
	Power lines knocked down.									
Lea County										
Jal	30	2000MST			0	0			Hail (1.75)	
Lea County										
Jal	30	2000MST			0	0			Thunderstorm Wind (G52)	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
<u>NEW MEXICO Southeast</u>										
Lea County										
Hobbs	30	2210MST			0	0			Hail (0.75)	
Lea County										
Nadine	30	2305MST			0	0			Hail (0.75)	

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Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	
<u>TEXAS West</u>									
TXZ045>048-050>052-057		Gaines - Dawson - Borden - Scurry - Andrews - Martin - Howard - Van Horn/Guadalupe Mountains Area -							
		01	0000CST		0	0			Drought
		31	2359CST						

Drought conditions continued in Southwest Texas and Southeast New Mexico. Agricultural losses will be great but will not be included until the end of the harvest when totals are calculated. October was the wettest month for 1998 across much of the region with most stations reporting more than 1 inch of rain and many reporting over 2 inches. However, the effects of the drought were still being felt across the region.

Terrell County 28 NNE Dryden	05	1805CST			0	0			Hail (0.75)
Terrell County Sanderson	05	1840CST			0	0			Hail (0.75)

During the late afternoon, elevated thunderstorms developed north of a slow moving cold front and tracked off to the northeast. These storms produced several reports of small hail.

Culberson County 8 S Van Horn	27	1615CST			0	0			Hail (1.75)
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This storm entered southern Culberson County from extreme southern Hudspeth County. Goltball size hail fell on U.S. Highway 90 south of Van Horn.

Reeves County Orla	27	1635CST			0	0	1K		Hail (1.25)
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This storm broke out windows at the Orla Post Office before going on to produce a tomado to the northeast of Orla.

Reeves County 6 NE Orla to 7 NE Orla	27	1645CST 1650CST	1	300	0	0			Tornado (F1)
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A spotter reported to Emergency Management Officials that a large tornado formed northeast of Orla and lasted about 5-6 minutes. This storm was a right-moving supercell that had persisted for over two hours. No damage was reported as the tornado was over open Country.

Winkler County 3 NW Wink	27	1820CST			0	0			Thunderstorm Wind (G53)
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The observer at the Winkler County Airport recorded a 53 knot (61 mph) gust.

Ward County Pyote	27	1845CST 1850CST			0	0			Hail (1.25)
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Winkler County Countywide	27	1900CST 2000CST			0	0			Flash Flood
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The Orla storm continued to move to the east and began to cause heavy rains. Many county roads across the county became flooded.

Crane County Crane	27	2110CST			0	0			Hail (1.50)
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This storm developed on the south flank of the storm that went through Culberson, Reeves, and Winkler Counties. This storm took about a 290 degree track while the storm to the north moved at about 270 degrees

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									October 19
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops		Character of Storm
<u>TEXAS West</u>									
Andrews County 25 WNW Andrews	27	1745CST			0	0			Hail (0.75)
									This storm had a long history of severe weather while crossing Southeast New Mexico. The storm quickly moved through the northwestern corner of Andrews County, then moved into southern Gaines County where it eventually weakened. Low-level moisture and moderate to strong dynamics came together for a minor outbreak of severe weather on this afternoon and evening. At the surface a slowly moving cold front acted as a focus, while a strongly diffluent flow in the upper levels helped to intensify storms. CAPE values were around 1500 J/kg with SRH values near 150 m2/s2. For a period in the late afternoon many storms were exhibiting rotation with several of these storms taking right turns.
Reeves County 9 N Pecos	30	1505CST 1528CST			0	0			Hail (1.75)
									The hail was in a two mile wide swath that crossed US 285 and FM 1216 stripping bark and foliage from mesquite bushes.
Reeves County 7 N Pecos	30	1515CST	3	100	0	0			Tornado (F0)
									A supercell storm north of Pecos produced a weak tornado that caused little if any damage. The tomado dissipated before the storm passed into Ward county.
Winkler County Wink	30	1615CST			0	0			Hail (1.75)
Brewster County Alpine	30	1710CST			0	0			Hail (1.50)
Brewster County Alpine	30	1743CST			0	0			Hail (1.00)
Andrews County Andrews	30	2202CST			0	0			Hail (0.88)
									An upper level disturbance spinning ahead of a strong trough to the west supplied lift to an unstable air mass with surface temperatures in the 70s and CAPE values up to 2500 J/kg. Thunderstorms developed from late afternoon and continued throughout much of the night. There were a number reports of damaging wind and large hail, with a small tornado also observed.
Howard County 8 S Big Spring	31	1639CST			0	0			Hail (0.75)
Glasscock County Garden City	31	1740CST			0	0			Hail (1.00)
Reagan County 22 W Big Lake	31	1800CST			0	0			Hail (0.75)
									A series of storms developed during the late afternoon ahead of a cold front in unusually warm moist air for late October. With a deep layer of shear, steepening lapse rates, and clearing ahead of the front, destabilization resulted in thunderstorm development which continued until late night when the s storms moved east out of the area.
Mitchell County 16 SSW Colorado City	31	1840CST			0	0			Hail (1.75)
									Golf ball size hail.
Pecos County Iraan	31	1845CST 2030CST			0	0			Flash Flood
									Most roads in town were flooded including SH 349 four miles south of town.
Terrell County 20 NNE Dryden	31	2110CST			0	0	2K		Thunderstorm Wind
									A large isolated thunderstorm developed in central Brewster Country and tracked NE into Terrell County where it knocked down power lines.